

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :  
Tetsuo YAZAWA et al. : **Mail Stop: PCT**  
Serial No. NEW : Attorney Docket No. 2006\_1564A  
Filed September 15, 2006 :

NOVEL PHOTOCATALYST AND METHOD  
FOR PRODUCING SAME  
[Corresponding to PCT/JP2005/004369  
Filed March 11, 2005]

THE COMMISSIONER IS AUTHORIZED  
TO CHARGE ANY DEFICIENCY IN THE  
FEES FOR THIS PAPER TO DEPOSIT  
ACCOUNT NO. 23-0975

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

- ☐ each U.S. Patent and U.S. Patent application publication;
- ☐ each reference previously cited in the international application PCT/\_\_\_\_\_; and/or
- ☐ each reference previously cited in prior parent application Serial No. \_\_\_\_\_.

1a. [X] This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or

ATTACHMENT "C"

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /D.B./

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

**and thus no certification and/or fee is required.**

1b. ☐ This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

(1) ☐ the certification of paragraph 2 below is provided, **or**

(2) ☐ the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

1c. ☐ This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

**the certification of paragraph 2 below is provided, and**

**the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.**

2. It is hereby certified

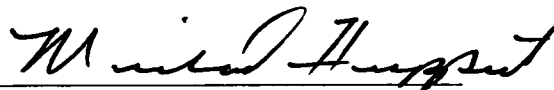
a. ☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or

b. ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

3. ☐ Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.
4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
- a. ☐ a full or partial English language translation submitted herewith,
  - b. ☒ a foreign patent office search report (in the English language) submitted herewith,
  - c. ☒ the concise explanation contained in the specification of the present application at pages 1-2,
  - d. ☒ the concise explanation set forth in the attached English language abstract,
  - e. ☐ the concise explanation set forth below or on a separate sheet attached to the reference:
5. ☐ A foreign patent office search report citing one or more of the references is enclosed.

Respectfully submitted,

Tetsuo YAZAWA et al.

By 

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September 15, 2006

Sheet 1 of 1		INFORMATION DISCLOSURE STATEMENT		IPT2 Rec'd PCT/PTO 15 SEP 2006			
FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S) <i>(Use several sheets if necessary)</i>  Date Submitted to PTO: September 15, 2006			ATTY DOCKET NO. 2006_1564A		SERIAL NO. NEW <b>10/593249</b>		
			APPLICANT Tetsuo YAZAWA et al.				
			FILING DATE September 15, 2006			GROUP	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	AA	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
/D.B./	AD	2001-276194	10/2001	JP			Abstract
/D.B./	AE	2003-265966	9/2003	JP			Abstract
/D.B./	AF	2003-340289	12/2003	JP			Abstract
/D.B./	AG	2001-239164	9/2001	JP			Abstract
/D.B./	AH	10-310401	11/1998	JP			Abstract
/D.B./	AI	2001-157843	6/2001	JP			Abstract
/D.B./	AJ	2004-290747	10/2004	JP			Abstract
/D.B./	AK	2004-290748	10/2004	JP			Abstract
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
/D.B./	AL	FENG, Jiyun et al., "Novel Bentonite Clay-Based Fe-Nanocomposite as a Heterogeneous Catalyst for Photo-Fenton Discoloration and Mineralization of Orange II", Environ.Sci.Technol., January 2004, vol. 38, no. 1, pages 269-275.					
/D.B./	AM	Yuichi Ichihashi et al., "Formation of Ethylene Oxide by Photooxidation of Ethylene over Silica Modified with Copper", Studies in Surface Science and Catalysts (2000), vol. 130, pages 1995-1960.					
/D.B./	AN	Hisao Yoshida et al., "Epoxidation of Propene by Gaseous Oxygen over Silica and Mg-Loaded Silica under Photoirradiation", Journal of Catalysts (1997), vol. 171, pages 351-357.					
EXAMINER /Daniel Berns/				DATE CONSIDERED 09/27/2010			

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /D.B./